PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: RYAN KROMHOLZ & MANION, S.C. P.O. BOX 26618 MILWAUKEE, WI 53226	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) 24 JUL 2009		
Applicant's or agent's file reference 20835-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US 09/02403	International filing date (day/month/year) 17 April 2009 (17.04.2009)		
Applicant MIRAMAR LABS, INC.			
When? The time limit for filing such amendme international search report. Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile For more detailed instructions, see the notes on the Article 17(2)(a) to that effect and the written opinion of the protest together with the decision thereon I applicant's request to forward the texts of both no decision has been made yet on the protest; the Reminders Shortly after the expiration of 18 months from the prior International Bureau. If the applicant wishes to avoid or application, or of the priority claim, must reach the International Forest the completion of the technical preparations for international Bureau. The International Bureau will send international Bureau. The International Bureau will send international preliminary examination report has been or is to the public but not before the expiration of 30 months from the Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone date (in some Offices even later); otherwise, the applicant must for entry into the national phase before those designated In respect of other designated Offices, the time limit of 30 months. See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet	amend the claims of the international application (see Rule 46): amend the claims of the international application (see Rule 46): amendments is normally two months from the date of transmittal of the treau of WIPO, 34 chemin des Colombettes Facsimile No.: +41 22 338 8270 notes on the accompanying sheet. Atternational search report will be established and that the declaration under in opinion of the International Searching Authority are transmitted herewith. Att of (an) additional fee(s) under Rule 40.2, the applicant is notified that: In thereon has been transmitted to the International Bureau together with the casts of both the protest and the decision thereon to the designated Offices. The priority date, the international application will be published by the avoid or postpone publication, a notice of withdrawal of the international enternational Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, as for international publication. The priority date, the international Searching Authority to the avoid or postpone publication. The priority date, the international Searching Authority to the avoid or postpone publication. The priority date opposition of the International Searching Authority to the avoid seignated offices unless an open or is to be established. These comments would also be made available to the from the priority date. The respect of some designated Offices, a demand for international preliminary to postpone the entry into the national phase until 30 months from the priority opticant must, within 20 months from the priority date, perform the prescribed designated Offices. The same of the international is filed within 19 the about the applicable time limits, Office by Office, see the PCT Applicant's		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774		



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 20835-PCT	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
International application No.	International filing date (day/m	onth/year)	(Earliest) Priority Date (day/month/year)
PCT/US 09/02403	17 April 2009 (17.04.2009)		17 April 2008 (17.04.2008)
Applicant MIRAMAR LABS, INC.			
according to Article 18. A copy is being This international search report consists	g transmitted to the International of a total of sheets.	Bureau.	Authority and is transmitted to the applicant
It is also accompanied by a	copy of each prior art document	cited in this	report.
1. Basis of the report			
	e international search was carried		asis of:
	lication in the language in which	it was filed.	
a translation of the in	nternational application into ed for the purposes of internation	al search (Ru	which is the language of ales 12.3(a) and 23.1(b)).
b This international search		g into accou	nt the rectification of an obvious mistake
			n the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (see Box No. II)		
3. Unity of invention is lack	ing (see Box No. III).		
4. With regard to the title,			
the text is approved as sub			
the text has been establish	ed by this Authority to read as fol	lows:	
5. With regard to the abstract,			
the text is approved as sub			the same in Den Mar NV The small and
the text has been establish may, within one month from	ed, according to Rule 38.2(b), by om the date of mailing of this inter	this Authorit	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be	e published with the abstract is Fi	gure No. 1	
as suggested by the			
	authority, because the applicant fa		
-	Authority, because this figure bett	er characteriz	zes the invention.
b none of the figures is to be	e published with the abstract.		

Form PCT/ISA/210 (first sheet) (April 2007)



INTERNATIONAL SEARCH REPORT

International application No. PCT/US 09/02403

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I: 1-26, drawn to towards disposal housings, particularly intended for use with medical devices Group II: 27-61: Method and devices with antenna arrays, scattering elements and cooling plates to apply energy to the skin.
The inventions listed as Groups I - II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:
The special technical feature of Group I is a disposable housing, particularly the casing, intended for use with general medical devices, which is not present in Group II. Group II has a special technical feature of antenna arrays, scattering elements and cooling plates for applying energy to skin, which is not present in Group I. Neither of these special technical features is shared by the other group, nor do they correspond to a special technical feature in the other group. Accordingly, unity of invention is lacking under PCT Rule 13.1.
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-26
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 09/02403

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 18/18 (2009.01)			
USPC - 607/101 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELD	OS SEARCHED		
Minimum doo USPC: 607/1	cumentation searched (classification system followed by cl 101	assification symbols)	
Documentation USPC: 607/9	on searched other than minimum documentation to the exte 6-101, 104	ent that such documents are included in the	fields searched
PubWEST(U	ta base consulted during the international search (name of SPT,PGPB,EPAB,JPAB), Google patent, Google Scholas: apparatus, methods, systems, tissue, noninvasive tressue chamber, applicator chamber, opening, bio-barrier	ır atment energy therapy dermatological. (enerator, applicator,
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app		Relevant to claim No.
X	US 2005/0251117 A1 (ANDERSON et al) 10 November	2005(10.11.2005) entire document,	14, 22-23, 26
Ÿ	especially para[0040], [0051], [0060], [0071], [0073], Fig	g. 3	15-21, 24-25
Υ	US 6,334,074 B1 (SPERTELL) 25 December 2001 (25. col 4, ln 67-col 5, ln 8; col 6, ln 8-12; col 7, ln 23-26; col col 8, ln 8; col 8, ln 39-43; col 8, ln 47-63; col 9, ln 32-4	7, in 49-51; col /, in 54-61; col / in 6/-	1-13, 24-25
Υ	Y US 7,278,991 B2 (MORRIS et al) 09 October 2007 (09.10.2007) col 7, ln 48 -51		1-13
Υ	Y US 6,277,104 B1 (LASKO et al) 21 August 2001 (21.08.2001) col 7, ln 25-34		15-21
Υ	US 2004/0049251 A1 (KNOWLTON)11 March 2004 (11	1.03.2004)para[0024], [0201]	11-12
Υ	US 6,457,476 B1 (ELMER et al) 01 October 2002 (01.1	0.2002) col 9, ln 50-53	13
Furthe	er documents are listed in the continuation of Box C.	politica and a second a second and a second	
"A" docum	categories of cited documents: ent defining the general state of the art which is not considered	"T" later document published after the inter date and not in conflict with the appli the principle or theory underlying the	zation but theu to understand
to be o "E" earlier filing o	f particular relevance application or patent but published on or after the international late	"X" document of particular relevance; the considered novel or cannot be considered the document is taken along	claimed invention cannot be lered to involve an inventive
cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document			claimed invention cannot be step when the document is
"O" docum	ent referring to an oral disclosure, use, exhibition or other	combined with one or more other such being obvious to a person skilled in th	documents, such combination the art
the pri	ority date claimed	Date of mailing of the international sear	
	actual completion of the international search	24 JUL 2009' !	
Name and	mailing address of the ISA/US CT, Attn: ISA/US, Commissioner for Patents	Authorized officer: Lee W. Young	
P.O. Box 14	50, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	

Form PCT/ISA/210 (second sheet) (April 2007)



From the INTERNATIONAL SEARCHING AUTHORITY

RYAN KROMHOLZ & MANION, S.C.

Date of mailing (day/month/year) 24 JUL 2009	P.O. BOX 26618 MILWAUKEE, WI 53226	4 , 0.0.		ITTEN OPINION C ONAL SEARCHIN (PCT Rule 43 <i>bis</i> .	G AUTHORITY
See paragraph 2 below			Date of mailing (day/month/year)	24 JUL	2009
International application No. PCT/US 09/02403 International Patent Classification (IPC) or both national classification and IPC IPC(8) - A61B 18/18 (2009.01) USPC - 607/101 Applicant MIRAMAR LABS, INC. I. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.	1 ·	A A A A A A A A A A A A A A A A A A A			v
PCT/US 09/02403		International filing date	(day/month/year)	Priority date (day/mo	nth/year)
IPC(8) - A61B 18/18 (2009.01) USPC - 607/101	1 **	17 April 2009 (17.04	4.2009)	17 April 2008 (17	'.04.2008)
Box No. II Priority Box No. III Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 7. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("PEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.	IPC(8) - A61B 18/18 (2009.01) USPC - 607/101	r both national classificat	tion and IPC		
3. For further details, see notes to Form PCT/ISA/220.	Box No. II Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authorit other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that writte opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPE a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of For PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.				industrial applicability; written opinion of the nt chooses an Authority e 66.1 bis(b) that written and to submit to the IPEA

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Date of completion of this opinion

Authorized officer:

Lee W. Young

Facsimile No. 571-273-3201

15 July 2009 (15.07.2009)

PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 09/02403

Box 1	No.	I Basis of this opinion
1 ,	With	regard to the language, this opinion has been established on the basis of:
	X	the international application in the language in which it was filed.
ļ		a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.	Witl esta	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been blished on the basis of:
	a. 1	type of material
	!	a sequence listing
		table(s) related to the sequence listing
	b	format of material
	U.	on paper
		in electronic form
	c.	time of filing/furnishing
		contained in the international application as filed
		filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
		turnished subsequently to this Additionally for the purposes of section
4.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5	Αd	ditional comments:
J.	/s.u	



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 09/02403

Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
paid additional fees
paid additional fees under protest and, where applicable, the protest fee
paid additional fees under protest but the applicable protest fee was not paid
not paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
complied with
not complied with for the following reasons: This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I: 1-26, drawn to towards disposal housings, particularly intended for use with medical devices Group II: 27-61: Method and devices with antenna arrays, scattering elements and cooling plates to apply energy to the skin.
The inventions listed as Groups I - II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:
The special technical feature of Group I is a disposable housing, particularly the casing, intended for use with general medical devices, which is not present in Group II. Group II has a special technical feature of antenna arrays, scattering elements and cooling plates for applying energy to skin, which is not present in Group I. Neither of these special technical features is shared by the other group, nor do they correspond to a special technical feature in the other group. Accordingly, unity of invention is lacking under PCT Rule 13.1.
Cit Cit contains and after international applications
4. Consequently, this opinion has been established in respect of the following parts of the international application:
all parts
the parts relating to claims Nos. 1-26



International application No.

PCT/US 09/02403

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	1-10, 11-13, 15-21, 24, 25	YES
riovoity (11)	Claims	14, 22-23, 26	NO NO
Inventive step (IS)	Claims	None	YES
* ` '	Claims	1-26	NO
Industrial applicability (IA)	Claims	1-26	YES
	Claims	None	NO

Citations and explanations:

Claims 14, 22-23, 26 lack novelty under PCT Article 33(2) as being anticipated by US 2005/0251117 A1 to Anderson et al (hereinafter "Anderson").

As per claim 14, Anderson discloses a medical device disposable (FIG. 9) comprising: a tissue chamber (portion of concave opening below 301, FIG. 3) comprising a tissue contact surface (301) at a proximal end of said tissue chamber and a tissue opening at a distal end of said tissue chamber (para[0051], FIG. 3);

an applicator chamber(interior of 300 and portion above 301, FIG. 3; para[0051]); a flexible bio-barrier at a proximal end of said tissue chamber said flexible bio-barrier separating said tissue chamber and said applicator chamber, said flexible bio-barrier(301) forming at least a portion of said tissue contact surface (para[0051]"Membrane 301 can be used to collect dead skin, .."); a vacuum port (304, para[0051]);

a vacuum circuit connecting said tissue chamber, said applicator chamber and said vacuum port, said vacuum circuit comprising a vacuum passage(para[0073]" The membrane 301 has two portions: an interior portion 1101A which generates an interior vacuum..").

As per claim 22, Anderson discloses the medical device disposable further comprising a compliant member(301) surrounding said tissue opening, said compliant member having a proximal opening adjacent said tissue opening and a distal opening, wherein said distal opening is larger than said proximal opening(para[0051]"A recess or void exists between the membrane 301,...", Fig.3 shows the distal opening is larger than said proximal opening).

As per claim 23, Anderson discloses the medical device disposable wherein said vacuum passage is an opening between a wall of said tissue chamber and said tissue bio-barrier (FIG. 3, para[0073]"The membrane 301 has two portions: an interior portion 1101A..").

As per claim 26, Anderson further discloses the medical device disposable wherein said tissue surface (184) has an area greater than an outer area of an antenna array(172) in an applicator affixed to said medical device disposabl(para[0060]"The electrodes 403a and 403b in FIG. 4 can serve two purposes...", para[0071]"The disposable tip 902 on device 900 may be..").

Claims 1-10 lack an inventive step under PCT Article 33(3) as being obvious over US 6,334,074 B1 (Spertell) in view of US 7,278,991 B2 to Morris et al (hereinafter "Morris").

As per claim 1, Spertell discloses a medical device disposable comprising(col 7, ln 49-51): a tissue chamber(82) having a tissue opening(84) at a distal end and a rigid surface surrounding said tissue opening (col 7, ln 54-55;col 7

In 67-col 8, In 2);

an applicator chamber(69)(col 7, ln 23-26); a flexible bio-barrier at a proximal end of said tissue chamber said flexible bio-barrier(83) separating said tissue chamber and said applicator chamber, a portion of said flexible bio-barrier forming a tissue contacting surface(col 8, in 51-56); However, Spertell fails to teach a compliant member. Morris discloses a compliant member surrounding said tissue opening, said compliant member having a proximal opening adjacent said tissue opening and a distal opening, wherein said distal opening is larger than said proximal opening(col 7, In 48 -51). It would have been obvious to one skilled in the art combine the compliant member taught by Morris to the device of Spertell so that the treatment device has flexible tissue chamber which can be better sealed with the treated surface of the tissue.

As per claim 2 and 3, Spertell discloses the medical device disposable wherein said compliant member is positioned at an angle, or comprises a wall connecting said proximal opening and said distal opening, said wall being angled of approximately fifty-three degrees with respect to said rigid surface(col 7, In 67-col 8 In 4, claim 12). Although Spertell does not describe how big the angle, however, it would have been obvious to one skilled in the art make the angle to 53 degree easily as needed.

As per claim 4, Spertell further discloses the medical device disposable wherein said compliant member further comprises an outer rim positioned around said distal opening(col 9, ln 38-41).

--Please See Continuation Sheet--



WRITTEN OPINION OF THE

International application No.

PCT/US 09/02403

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2 Citations and Explanations:

As per claim 5, Spertell further discloses the medical device disposable wherein:

INTERNATIONAL SEARCHING AUTHORITY

said outer rim extends a distance of approximately .033 inches from said distal opening(col 7, In 54-57);

said compliant member has a height of approximately .25 inches;

said tissue opening has a long axis and a short axis, said tissue opening long axis being approximately 1.875 inches and said tissue

opening short axis being approximately 1.055 inches(col 7, ln 23-26; See Fig. 7); said distal opening in said compliant member has a long axis and a short axis said distal opening long axis being approximately 2.429 inches and said distal opening short axis being approximately 1.609

inches(col 7, In 23-26; See Fig. 7)

said tissue contact surface having a long and a short axis, said long axis being approximately 1.54 inches and said short axis being approximately .700 inches(col 7, in 23-26; See Fig. 7). Although Spertell just provide few dimensions in his device, we can estimate the other dimensions based on the known dimensions and the drawings, for height of the compliant chamber, according to Fig. 7, if opening 67 is 6 mm x 4 mm = 0.236 inches x 0.157 inches, then proportionally the size of the opening of chamber 82 should be 7 mm x 5 mm = 0.275 inches x 0.197 inches, the height of chamber 82 should be around 7 mm = 0.275 inches, it would have been obvious to one skilled in the art to applicator chamber and the disposable chamber with larger size as the application, or as an optional size for device of Spertell so that the device can be used in a wider range of treatments.

As per claim 6, Spertell further discloses the medical device disposable wherein said wall is substantially straight (see Fig. 7, 80).

As per claim 7, Spertell further discloses the medical device disposable wherein said compliant member comprises one or more alignment marks, at least one of said alignment marks being positioned on a long side of said compliant member(col 8, in 39-43).

As per claim 8, Spertell further discloses the medical device disposable wherein said alignment marks are positioned on a wall of said skirt and extend from approximately said rim toward said tissue opening(col 8, In 4-8).

As per claim 9, Spertell further discloses the medical device disposable wherein said alignment marks move with respect to an applicator positioned in said applicator chamber when said medical device disposable is pressed against tissue with sufficient pressure to compress said compliant member(col 7, In 57-61).

As per claim 10, Spertell further discloses the medical device disposable wherein said wall has a thickness of approximately .050 inches(Fig. 7). According to Fig. 7 and the drawing ratio, the thickness of the disposable chamber(80) should be around 1 mm = 0.040 inches.

Claims 15-21 lack an inventive step under PCT Article 33(3) as being obvious over Anderson in view of US 6,277,104 B1 to Lasko et al (hereinafter "Lasko").

As per claim 15, Anderson discloses a medical device disposable wherein said vacuum circuit comprises: a vacuum passage positioned around said tissue contact surface a vacuum channel positioned around said vacuum passage, said vacuum channel positioned between said vacuum passage and said vacuum port;(para[0073]"as shown in FIG. 11, there are any number of vacuum chambers A, B on device.."), however, Anderson fails to teach an air permeable and fluid impermeable bio-barrier. Lasko discloses an applicator bio-barrier positioned between said vacuum port and said applicator chamber, said applicator bio-barrier being substantially permeable to air and substantially impermeable to fluids(col 7, In 25-34). Therefore it would have been obvious to one skilled in the art utilize a bio-barrier as taught by Lasko with the device of Spertell in order to remain the liquid on the treatment surface and vacuum the air from therein during the tissue treatment.

As per claim 16 and 17, Anderson discloses the medical device disposable wherein said vacuum passage completely/ substantially surrounds said tissue interface surface (para[0073]; FIG. 11).

As per claim 18, Anderson further discloses the medical device disposable wherein said vacuum passage is positioned in a wall of said tissue chamber adjacent said tissue contact surface (FIG. 3).

As per claim 19, Anderson further discloses the medical device disposable wherein said vacuum port is connected to a vacuum tube(para[0071]"The device 900 also includes a pneumatic adjustment control 903 to control ..).

As per claim 20, Lasko furhter discloses the medical device wherein said vacuum tube includes a generator bio-barrier said generator biobarrier being substantially permeable to air and being substantially impermeable to fluids(col 7, in 25-34).

As per claim 21, Anderson discloses the medical device disposable wherein said vacuum channel includes a well region adapted to collect fluids from said tissue chamber (para[0051]"Membrane 301 can be used to collect dead skin, according to one..; FIG. 3).

-Please See Continuation Sheet--





Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2 Citations and Explanations:

Claims 24-25 lack an inventive step under PCT Article 33(3) as being obvious over Anderson in view of Spertell.

As per claim 24 and 25, Anderson does not teach size of vacuum passage in the medical device disposable, Although Spertell does not directly teach wherein said vacuum passage is approximately .020 inches wide and the vacuum passage is greater than approximately .010 inches when said medical device disposable is attached to an applicator, however, Spertell indirectly give the passage width by describing other relative dimensions and the drawings(col 8, ln 57-63, Fig.7). Spertell mentions the vacuum flow is sufficient and according to Fig. 7, 54, it should not be less than 0.5 mm = 0.02 inches. It would have been obvious to one skilled in the art to make the vacuum passage width between 0.01 to 0.02 inches so as to provide an efficient size conduit while minimizing space and waste.

Claims 11-12 lack an inventive step under PCT Article 33(3) as being obvious over Spertell in view of Morris, and further in view of US 2004/0049251 A1 (Knowlton).

As per claim 11 and 12, Spertell disclosae a medical device disposable, but fails to teach a smooth and radiused surface, Knowlton discloses method and apparatus wherein said tissue chamber includes a chamber wall extending from said tissue opening to approximately said tissue contact surface, said wall including a substantially smooth, radiused surface(para[0024]) having a radius of approximately three-sixteenths of an inch(para[0201], note: three sixteenths of an inch = 0.187 inches). It would have been obvious to one skilled in the art apply the surface of the chamber taught by Knowlton to the device of Spertell so that the tissue chamber can be closer and better contacted with the treated surface of tissue.

Claim 13 lacks an inventive step under PCT Article 33(3) as being obvious over Spertell in view of Morris, and further in view of US 6,457,476 B1 to Elmer et al (hereinafter "Elmer").

As per claim 13, Spertell disclosae a medical device disposable, but fails to disclose a compliant member, Morris disloses a flexible member, but fails to teach the hardness of the material. Elmer discloses an applicator wherein said compliant member has a durometer density rating of approximately A60 (col 9, in 50-53). It would have been obvious to one skilled in the art to utilize the material disclosed by Elmer combine the devices disclosed by Spertell and Morris so that the device has a better contacting and sealing with the treatment surface.

Claims 1-26 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

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